

8TH CARDIOVASCULAR NURSING & NURSE PRACTITIONERS MEETING

August 08-09, 2016 Las Vegas, USA

Application of augmented reality integrated simulation education in healthcare education

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Simulation in nursing comes in a wide variety of forms – from low fidelity mannequins in a lab course to high fidelity trauma training. However, not all facilities and academic institutions have funding or space for such equipment. Augmented Reality Integrated Simulation Education (ARISE) is an inexpensive, emerging, and versatile instructional method for health care disciplines. ARISE merges the concepts of simulation with augmented reality and game-based situated learning theory. ARISE scenarios are developed using open source ARIS software, QR codes, and medical images yet completed using an iPad. This presentation will focus the results of a recent study of ARISE prototypes for nursing education developed as part of a Department of Labor TAACCCT 4 grant which was published in the April 2016 edition of Clinical Nursing Simulation. Four prototypes were trialed with representatives in the Wisconsin Technical College System in low and high fidelity environments. Demonstration of a scenario will be shown as well as utilization of ARISE scenarios in a variety of settings will be discussed. The results showed that ARISE positively enhances simulation and provides authentic interactions which may lead to future implications for nursing education. Further ARISE research, including student learning, student experience, and faculty evaluation is recommended as well as expanding the concept to other disciplines.

Biography

Kasey Carlson has been a Registered Nurse for 16 years. She holds a Master's degree in Nursing Education from the University of Wisconsin – Eau Claire and has been teaching Associate degree nursing for over 10 years. She also has a second Master's degree in Learning Design and Technology from San Diego State University. She specializes in healthcare simulation design and is the creator of the ARISE conceptual framework.

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